

ABSTRACT OF THE DISCLOSURE

A water-cooled auxiliary condenser device 200 receives refrigerant from an external refrigeration system 210 just downstream from its air-cooled condenser 110. The
5 refrigerant passes through a water-cooled condenser 250, and the refrigerant state is sensed by a temperature or pressure sensor 226. If the sensed state of the refrigerant rises above a first threshold, the flow of water through the water-cooled condenser 250 is increased, e.g., turned ON, using a controllable water valve 234. When the sensed state of the refrigerant drops below a second threshold, the water flow through the water-cooled
10 condenser 250 is decreased, e.g., turned OFF. The refrigerant returns to the refrigeration system just upstream from its liquid receiver 120. In the event that air-cooled condenser 110 fails, device 200 automatically activates the water-cooled condenser 250 to maintain safe refrigeration temperatures in the appliance. When not required, device 200 remains passive and does not use any water or electric.

15